PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P07168WO		FOR FURTHER ACTION		See Form PCT/IPEA/416				
International application No.		International filing date (day)	month/year)	Priority date (day/month/year)				
PCT/EP2004/005826		28.05.2004		06.06.2003				
Internationa	l Patent Classification (IPC) or nati	onal classification and IPC		1				
Applicant SIEME	NS AKTIENGESELL!	SCHAFT						
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. Tł	nis REPORT consists of a total of	5	sheets, including	this cover sheet.				
3. Ti	nis report is also accompanied by A	NNEXES, comprising:						
a.	(sent to the applicant and	to the International Bureau) a	total of 5	sheets, as follows:				
				mended and are the basis for this report and/or le 70.16 and Section 607 of the Administrative				
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
Ъ.	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. TI	nis report contains indications relati	ng to the following items:						
[2	Box No. I Basis of the	report						
	Box No. II Priority							
	Box No. III Non-establi	shment of opinion with regard	to novelty, inventi	ive step and industrial applicability				
	Box No. IV Lack of uni	ty of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Certain doc	uments cited						
	Box No. VII Certain defects in the international applicat			pplication				
Box No. VIII Certain observations on the international application								
Date of sub	Date of submission of the demand			is report				
Name and mailing address of the IPEA/EP			Authorized officer					
Facsimile N	'o	Telenh	one No					

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/005826

Box	No. I	Basis of the report						
1.		regard to the language, this report is based on the internation ted under this item.	nal application in the language in	which it was filed, unless otherwise				
		This report is based on translations from the original language which is the language of a translation furnished for the purposition international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/o	oses of:	·				
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished							
		the description:		on animalla. Elad/Graniahad				
	_	pages 4-7 pages* 1-3,3a	received by this Authority on	as originally filed/furnished 11.07.2005 with letter of 08.07.2005				
	_	pages*		01 00.07.2003				
			received by this realisting on					
		the claims:						
		nos.		as originally filed/furnished				
		nos.*		11.07.2005 with letter				
		nos.* 1,2						
	\square	nos.*	received by this Authority on					
	ا لكا	the drawings:						
	S	sheets 1/1		as originally filed/furnished				
	S	sheets*						
	_ s	sheets*	received by this Authority on					
	LJ a	a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence L	isting.				
3.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos. 3,4						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
	any table(s) related to sequence listing (specify):							
*	If item	n 4 applies, some or all of those sheets may be marked "supe	erseded."					

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Вох	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							_			
1.	Statement			-				···			_
	Novelty (N)										;
	Inventive								YES	;	
	Industrial	Claims Claims							YES NO		
2.	Citations and	explanations (Rule 7	0.7)								_
	1. Reference is made to the following documents:										
		D1 : EP-A	-1 022	2 7(02 (EATON C	ORPOR	ATION)			
		26 Jı	uly 20	000							
		D2: US-A	-4 23	7 45	54 (MEYER E	T AL)				
		2 Dec	cembe:	r 19	980						
		D3: DE 1	99 47	129	9 A1	(SIEME	NS AG)			
:		5 Ap:	ril 20	001.	•						
	2.	Document I	D1 is	cor	nsid	lered to	be t	he pri	or art		
		closest to	o the	suk	ojec	t matte	r of	claim :	l. Sai	.d	
	document d			oses	s an	acoust	ic re	ceiver	with t	he	
	features of the preamble of claim 1.										
	2.1	The subject	ct ma	tteı	r of	claim	1 the	refore	differ	:s	
		from the	known	aco	oust	ic rece	iver	in that	t a		
		duplexer	is us	ed t	to s	plit th	e ele	ctrical	l measu	ıring	
		signal in	to an	eva	alua	tion si	gnal	and a	supply		
		signal, e	ach t	here	eof	being i	n a d	iffere	nt		
		frequency	rang	e.							
	2.2	The subject				claim	l is	therefo	ore nov		
										<i>/</i>	

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 2.3 The problem addressed by the present invention can consequently be regarded as that of optimising the use of the acoustic receiver measurement signal.
- 2.4 The solution to the above problem, as proposed in claim 1 of the present application, involves an inventive step (PCT Article 33(3)). The reasons are as follows:

the receiver known from D1 compensates the electrical oscillations prior to evaluation and, in consequence, has only the absolute voltage level as a measure of the oscillation energy.

By contrast, the solution according to the invention, makes it possible to analyse oscillations in a frequency range (evaluation signal), that is to say oscillation mode and amplitude for example. The duplexer has a synergetic effect therein: in that it rids the evaluation signal of undesired frequencies (also, for example, incident radiation from mains power lines) and, secondly, it splits the supply signal – as is required for the autonomous operation of the receiving unit. In this way, an extra acoustic receiver (as in D2) for producing the operating voltage is no longer required.

Neither D1 nor D2 contains anything to suggest the solution according to the invention. Although D3

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	uses evaluation signals only in specified	
	frequency ranges, it also uses high-pass or	
	band-pass filters but does not describe either	
	an operating voltage supply or a duplexer.	
2.5	Claim 2, being a dependent claim, likewise	
	satisfies the requirements of PCT Article 33.	